BY HAND

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Richard Kroczek

Application No.: 09/509,283

Group Art Unit: 1644

Filed: August 11, 2000

Examiner: Roark, J.

For:

ANTI-HUMAN T-CELL COSTIMULATING

Attorney Docket No.: 7853-215

MONOCLONAL ANTIBODIES (as amended)

(new docket no.)

TRANSMITTAL OF SEQUENCE LISTING UNDER 37 C.F.R. § 1.821

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

In accordance with 37 C.F.R. § 1.821, Applicant, in connection with the above-identified patent application, submits herewith a Sequence Listing in paper and computer readable form pursuant to 37 C.F.R. §§ 1.821(c) and (e).

I hereby state that the content of the paper and computer readable copies of the Sequence Listing, submitted in accordance with 37 C.F.R. §§ 1.821(c) and (e), respectively, are the same.

Respectfully submitted,

Date: May 24, 2001

Laura A. Coruzzi

PENNIE & EDMONDS LLP

1155 Avenue of the Americas New York, New York 10036-2711

(212) 790-9090

Enclosures

Nicolans C. Olyge Ny. No. 39,20,

7
) —

Notice to Comply

Application No.	Applicant(s)	
09/509,283	KROCZEK, RICHARD	
Examiner	Art Unit	
Jessica H. Roark	1644	

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated	below within the time period set the Office	action to which the Notice is attached to
Applicant must me the terms maleated	control of the contro	under the provisions of 27 CED 1 136(a)\
avoid abandonment under 35 U.S.C. §	133 (extensions of time may be obtained	under the provisions of 37 Cr ix 1.130(a)/

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

	1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).
	2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).
\boxtimes	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).
	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."
	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing as required by 37 C.F.R. 1.821(e).
	7. Other:

Applicant Must Provide:

An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".

An initial or substitute paper copy of the "Sequence Listing", as well as an amendment directing its entry into the specification.

A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).

For questions regarding compliance to these requirements, please contact:

For Rules Interpretation, call (703) 308-4216

For CRF Submission Help, call (703) 308-4212

Patentin Software Program Support

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY



RAW SEQUENCE LISTING PATENT APPLICATION: US/09/509,283

DATE: 05/25/2001 TIME: 13:38:10

Input Set : A:\7853215.txt

Oark

Output Set: C:\CRF3\05252001\I509283.raw

ENTERED

```
3 <110> APPLICANT: Kroczek, Richard
 5 <120> TITLE OF INVENTION: Anti-human T-cell costimulating monoclonal antibodies
 7 <130> FILE REFERENCE: 7853-215
 9 <140> CURRENT APPLICATION NUMBER: 09/509,283
10 <141> CURRENT FILING DATE: 2000-08-11
12 <160> NUMBER OF SEQ ID NOS: 4
14 <170> SOFTWARE: PatentIn version 3.0
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 2641
18 <212> TYPE: DNA
19 <213> ORGANISM: 8F4
21 <400> SEQUENCE: 1
22 cgagagcctg aattcactgt cagctttgaa cactgaacgc gaggactgtt aactgtttct
                                                                          60
23 ggcaaacatg aagtcaggcc tctggtattt ctttctcttc tgcttgcgca ttaaagtttt
                                                                         120
24 aacaggagaa atcaatggtt ctgccaatta tgagatgttt atatttcaca acggaggtgt
                                                                         180
25 acaaatttta tgcaaatatc ctgacattgt ccagcaattt aaaatgcagt tgctgaaagg
                                                                         240
26 ggggcaaata ctctgcgatc tcactaagac aaaaggaagt ggaaacacag tgtccattaa
                                                                         300
27 gagtetgaaa ttetgeeatt eteagttate caacaacagt gtetettttt ttetatacaa
                                                                         360
28 cttggaccat tctcatgcca actattactt ctgcaaccta tcaatttttg atcctcctcc
                                                                         420
29 ttttaaagta actcttacag gaggatattt gcatatttat gaatcacaac tttgttgcca
                                                                         480
30 gctgaagttc tggttaccca taggatgtgc agcctttgtt gtagtctgca ttttgggatg
                                                                         540
31 catacttatt tgttggctta caaaaaagaa gtattcatcc agtgtgcacg accctaacgg
                                                                         600
32 tgaatacatg ttcatgagag cagtgaacac agccaaaaaa tctagactca cagatgtgac
                                                                         660
33 cctataatat ggaactetgg cacceaggea tgaageaegt tggeeagttt teeteaaett
                                                                         720
34 gaagtgcaag attctcttat ttccgggacc acggagagtc tgacttaact acatacatct
                                                                         780
35 tctgctggtg ttttgttcaa tctggaagaa tgactgtatc agtcaatggg gattttaaca
                                                                         840
36 gactgccttg gtactgccga gtcctctcaa aacaaacacc ctcttgcaac cagctttgga
                                                                         900
37 gaaagcccag ctcctgtgtg ctcactggga gtggaatccc tgtctccaca tctgctccta
                                                                         960
38 gcagtgcatc agccagtaaa acaaacacat ttacaagaaa aatgttttaa agatgccagg
                                                                        1020
39 ggtactgaat ctgcaaagca aatgagcagc caaggaccag catctgtccg catttcacta
                                                                        1080
40 teatactace tettettet gtagggatga gaatteetet titaateagt caagggagat
                                                                        1140
41 gcttcaaagc tggagctatt ttatttctga gatgttgatg tgaactgtac attagtacat
                                                                        1200
42 actcagtact ctccttcaat tgctgaaccc cagttgacca ttttaccaag actttagatg
                                                                        1260
43 ctttcttgtg ccctcaattt tctttttaaa aatacttcta catgactgct tgacagccca
                                                                        1320
44 acagecacte teaatagaga getatgtett acattettte etetgetget caatagtttt
                                                                        1380
45 atatatctat gcatacatat atacacacat atgtatataa aattcataat gaatatattt
                                                                        1440
46 gcctatattc tccctacaag aatatttttg ctccagaaag acatgttctt ttctcaaatt
                                                                        1500
47 cagttaaaat ggtttacttt gttcaagtta gtggtaggaa acattgcccg gaattgaaag
                                                                        1560
48 caaatttatt ttattateet attttetaee attatetatg tttteatggt getattaatt
                                                                        1620
49 acaagtttag ttctttttgt agatcatatt aaaattgcaa acaaaatcat ctttaatggg
                                                                        1680
50 ccagcattct catggggtag agcagaatat tcatttagcc tgaaagctgc agttactata
                                                                        1740
51 ggttgctgtc agactatacc catggtgcct ctgggcttga caggtcaaaa tggtccccat
                                                                        1800
52 cagcctggag cagccctcca gacctgggtg gaattccagg gttgagagac tcccctgagc
                                                                        1860
53 cagaggeeac taggtattet tgeteecaga ggetgaagte accetgggaa teacagtggt
                                                                        1920
54 ctacctgcat tcataattcc aggatctgtg aagagcacat atgtgtcagg gcacaattcc
                                                                        1980
                                                                        2040
55 ctctcataaa aaccacacag cctggaaatt ggccctggcc cttcaagata gccttcttta
```

56 gaatatgatt tggctagaaa gattcttaaa tatgtggaat atgattattc ttagctggaa 2100



RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/509,283

DATE: 05/25/2001 TIME: 13:38:10

Input Set : A:\7853215.txt

Output Set: C:\CRF3\05252001\I509283.raw

```
57 tattttetet aetteetgte tgeatgeeca aggettetga ageageeaat qtegatgeaa
                                                                         2160
58 caacatttgt aactttaggt aaactgggat tatgttgtag tttaacattt tgtaactgtg
                                                                         2220
59 tgcttatagt ttacaagtga gacccgatat gtcattatgc atacttatat tatcttaagc
                                                                         2280
60 atgtgtaatg ctggatgtgt acagtacagt actgaacttg taatttgaat ctagtatggt
                                                                         2340
61 gttctgtttt cagctgactt ggacaacctg actggctttg cacaggtgtt ccctgagttg
                                                                         2400
62 tttgcaggtt tctgtgtgtg gggtggggta tggggaggag aaccttcatg gtggcccacc
                                                                         2460
63 tggcctggtt gtccaagctg tgcctcgaca catcctcatc cccaqcatgg gacacctcaa
                                                                         2520
64 gatgaataat aattcacaaa atttctgtga aatcaaatcc agttttaaga ggaqccactt
                                                                         2580
65 atcaaagaga ttttaacagt agtaagaagg caaagaataa acatttgata ttcagcaact
                                                                         2640
                                                                         2641
68 <210> SEQ ID NO: 2
69 <211> LENGTH: 198
70 <212> TYPE: PRT
71 <213> ORGANISM: 8F4
73 <400> SEQUENCE: 2
74 Met Lys Ser Gly Leu Trp Tyr Phe Phe Leu Phe Cys Leu Arg Ile Lys
76 Val Leu Thr Gly Glu Ile Asn Gly Ser Ala Asn Tyr Glu Met Phe Ile
77
                                    25
78 Phe His Asn Gly Gly Val Gln Ile Leu Cys Lys Tyr Pro Asp Ile Val
                                40
80 Gln Gln Phe Lys Met Gln Leu Leu Lys Gly Gly Gln Ile Leu Cys Asp
                           55
82 Leu Thr Lys Thr Lys Gly Ser Gly Asn Thr Val Ser Ile Lys Ser Leu
83 65
                       70
84 Lys Phe Cys His Ser Gln Leu Ser Asn Asn Ser Val Ser Phe Phe Leu
86 Tyr Asn Leu Asp His Ser His Ala Asn Tyr Tyr Phe Cys Asn Leu Ser
87
               100
88 Ile Phe Asp Pro Pro Pro Phe Lys Val Thr Leu Thr Gly Gly Tyr Leu
89
           115
                               120
                                                    125
90 His Ile Tyr Glu Ser Gln Leu Cys Cys Gln Leu Lys Phe Trp Leu Pro
                           135
92 Ile Gly Cys Ala Ala Phe Val Val Cys Ile Leu Gly Cys Ile Leu Ile
                       150
                                            155
94 Cys Trp Leu Thr Lys Lys Lys Tyr Ser Ser Ser Val His Asp Pro Asn
                   165
                                       170
96 Gly Glu Tyr Met Phe Met Arg Ala Val Asn Thr Ala Lys Lys Ser Arg
97
               180
                                   185
98 Leu Thr Asp Val Thr Leu
           195
100 <210> SEQ ID NO: 3
101 <211> LENGTH: 17
102 <212> TYPE: PRT
103 <213> ORGANISM: 8F4
105 <400> SEQUENCE: 3
106 Met Gly Asn Cys Thr Ser Ala Cys Asn Gly Ala Tyr Gly Thr Asn Ala
107 1
108 Cys
```



RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/509,283

DATE: 05/25/2001 TIME: 13:38:10

Input Set : A:\7853215.txt

Output Set: C:\CRF3\05252001\I509283.raw

110 <210> SEQ ID NO: 4

111 <211> LENGTH: 17

112 <212> TYPE: PRT

113 <213> ORGANISM: 8F4

115 <400> SEQUENCE: 4

117 Met Gly Asn Tyr Thr Asp Ala Cys Asn Gly Ala Tyr Gly Thr Asn Ala

118 1 5 10 15

119 Cys



VERIFICATION SUMMARY

PATENT APPLICATION: US/09/509,283

DATE: 05/25/2001 TIME: 13:38:11

Input Set : A:\7853215.txt

Output Set: C:\CRF3\05252001\I509283.raw